

## Extra Review Questions MCAS Biology Compare and contrast mitosis and meiosis Thou our body mones Now organisms Program Merosis new derrical colls cell SOMATIC GAMETES replication ·e99 CELLS = SPONM Proprose 10(and OCCURS Metaphase m the and Hyoughout Anaphas nuclean envelope CONUACS Telophage t MODDODE Produces generally disappland BONA at the end of the unique Haptoid Cells pretaphase Cell yell housings line up Process divides the Cell twice SIMY Ancyphane Females + 1 egg Sulparx 3 polar badios Males + 45 Compare and contrast asexual and sexual reproduction 2. Advantageous MISEXUAL exual Advantageous 2 meiosis Producto Genetically SUMOC piants, animalis Plants + bic the annuals Bacteria processes in que gament Natural req. WM Photorou do both Venation ERONGY how organisms Junite during Retury reproduce coffspring are to create 39 menay Seehon Yield5 CCIONES OF the WOU Offspring pwant Mon School Color Color Color quellig Disadvantage

less variation

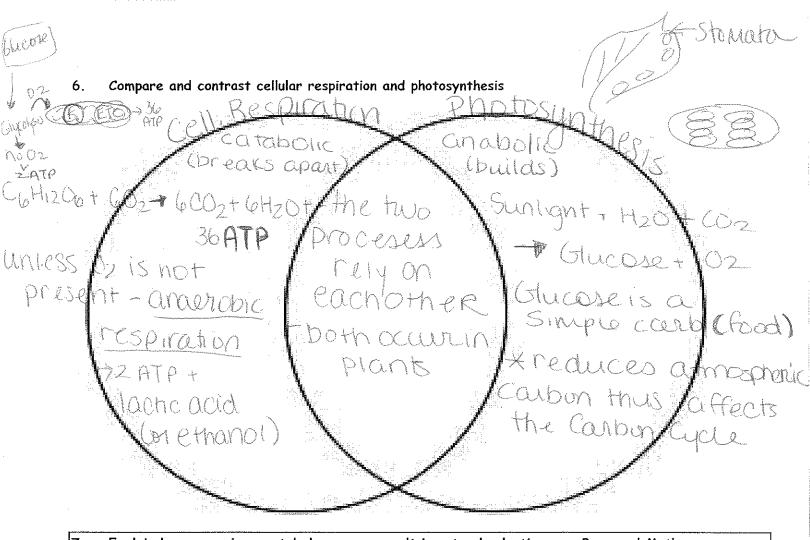
3. Classify the following organic molecules (protein, carb, nucleic acid, or lipid): DNA, RNA, Helicase, Wax, Sucrose, Starch

Organic Molecules Contrast Foldable Chart

Maj	jor Class	Subclass	Examples	Elements or atomic ratios	Identifying Features	Uses in organisms
	rbohydrates	Monosaccharides	Glucose	C, H, O	Ciroles	Xcenuor
ie va No os	unthesis	Dissacharides	#WHOSE			resporations XOULICE
	grindsis VSunthean	Polysaccharides	Cellulose			EUIGH
	cleic Acids	DNA S		CH,N,O,P	nucleonds t	hods gwe
	repliation	RNA	MQNA		A,4,6,6	e commen
	,	ATP, ADP, AMP		Citingop	0-00-0 *	Cenulas Enecia
	oteins	Amino Acids	Glycine	C, H, N, O	×	genetic expression
otc N	<u>funthesis</u>	Polypeptides –	eye color Amilase		, jan	EUSAWED
Lip	ids	Fats -	Jahrated Y-UNSOHIN	live	Long X	low form
	Q. A. C.	Phospholipids	burer	CHO	Lines *	Cell meniora
A STATE OF THE STA		Steroids	haitmones			

4. Explain the process of meiosis: Meuosis Occur	no in the gonado of
Organisms and produces hapro	id, generically unique
Sex curs he phades	PTI-
Prophase I - crossing over Nuc. Envelope disappears	MI - Sister chromatids line up
Metaphase I - Houologous Pius Imero	TA
Anaphase I - PUPSSIGH TELOPHASE I - PINCH	TI

5. Design a scientific experiment (making sure 1	to follow all steps of the scientific method)
	to a plant then it will like longer
Independent var i Osprem	
dependent var. Thow long the plant lives	ASPRIN Procedur
Data Conection =	CONTROL EXPT GIOLP
CONCLUSION = The data Support	outs (does not support the



7. Explain how an environmental change can result in natural selection: ex. Peppered Moth or Darwins Finch Example. Use the following in your answer: Variation, Adaptation, Environment, Survival of the Fit, offspring

Variation in a species exists over time (many generations)

Environmental Change (Individuals are better suited for the environment (have adaptations)

Individuals with adaptations live to reproduce

and pass on traits to offspring

- over many generations the individuals that make up the population will have inherited the adaptation

OSMOSIS: Morament of 420 Hap to low [] until equili	
8. What happens when you drop tap water into your eyes? Explain using your knowledge of	
Eyes - body cells - are in a slightly so	The appropriate and the second
therefore in order to help equilibrium it would impt to add an isotonic solution to the boar	
HYPER ISP OR HYPER	finite
9. Explain how the extinction of a plant or animal can disrupt an ecosystem	
If a species becomes extinct to a	on
drastically affect the other organ	1545
in the cosystem.	

The species becomes extinct it can drastically affect the other organisms in the coosystem.

(predator-prey relationships & Other Symbiotic relationships) - would all be changed.

